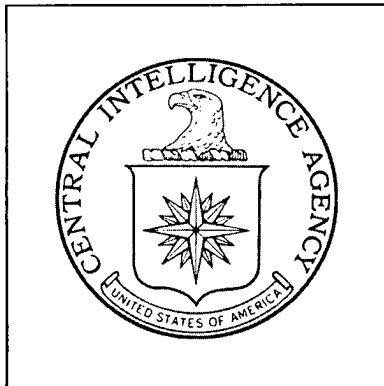


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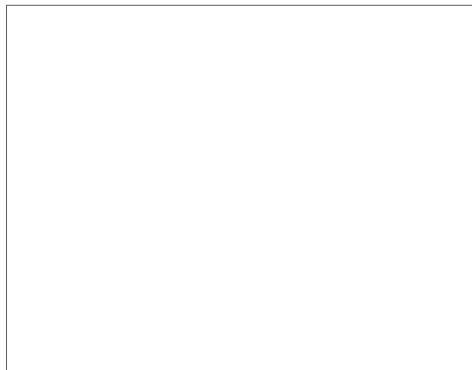
**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Yung-ching Nitrogen Fertilizer Plant

Yung-ching, China



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DATE NOVEMBER 1971

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

INSTALLATION OR ACTIVITY NAME		COUNTRY	
Yung-ching Nitrogen Fertilizer Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
48SUQ458835	35-58-50N 103-16-38E	None	None
MAP REFERENCE			
ACIC. USATC, Series 200. Sheet M0384-1H1. 2nd ed. Oct 68. Scale 1:200,000 (SECRET/)			
LATEST IMAGERY USED		NEGATION DATE (If required)	

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ABSTRACT

Analysis of Yung-ching Nitrogen Fertilizer Plant on high-resolution photography shows that the primary product will be urea fertilizer, with liquid ammonia and probably aqueous ammonia as secondary products. We have not yet confirmed that the plant has begun production.

The plant was under construction when it was first observed on photography in September 1967. By August 1968 an unidentified processing building and six support buildings had been constructed. Between August 1968 and October 1970, a steam plant, coal gas retorts, gas purification equipment, an ammonia synthesis building, and urea production facilities were added. The plant was externally complete by October 1970. As of July 1971, it has not been observed in operation.

This report includes a photograph, a process flow chart, a line drawing of the plant, and a chronological summary of construction and operational status.

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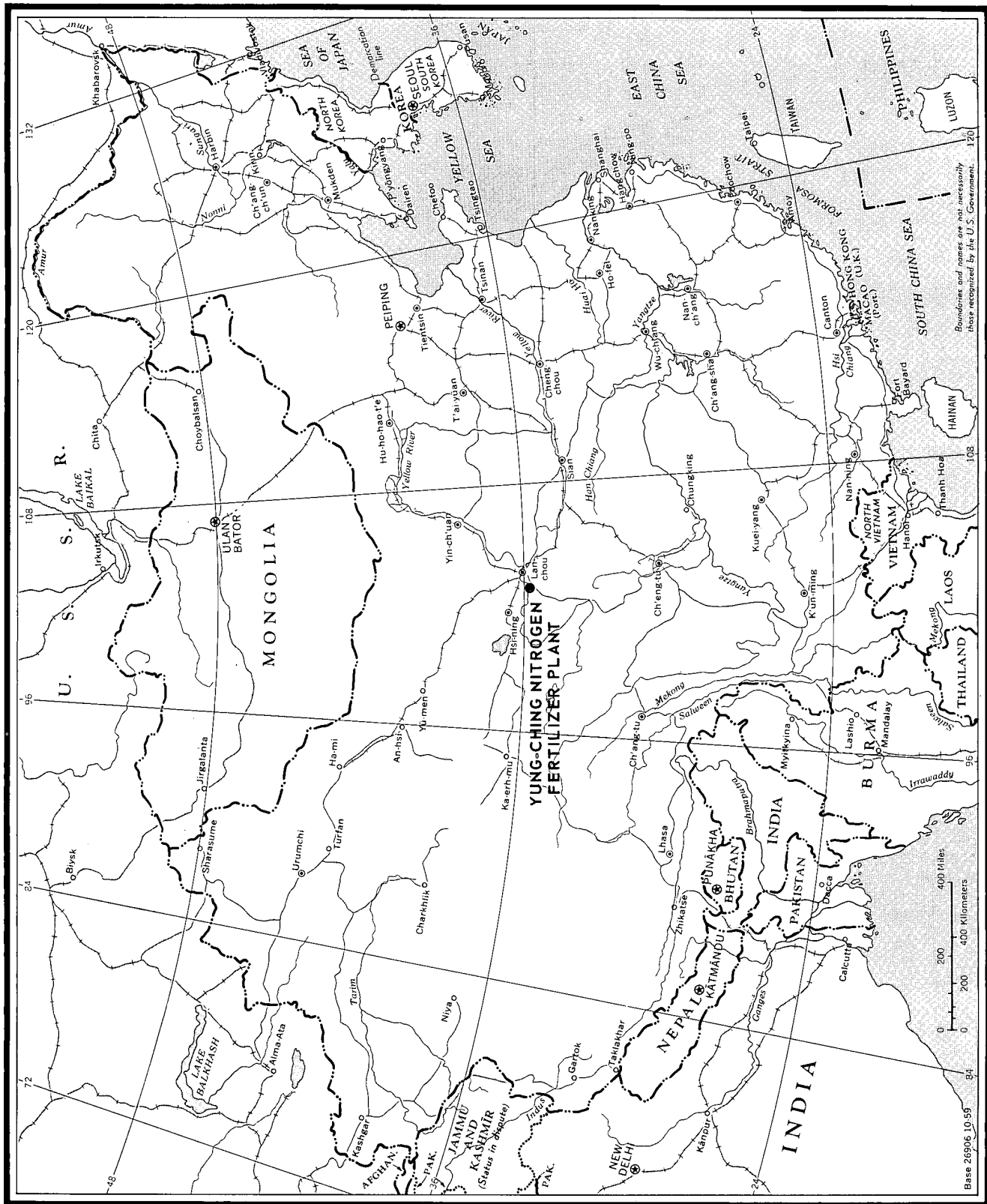


FIGURE 1. LOCATION MAP.

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INTRODUCTION

Yung-ching Nitrogen Fertilizer Plant is located 3 nautical miles (nm) northwest of the center of Yung-ching, Kansu Province (see Figure 1).

Electric power is received from the regional grid system. The

Lien-hua-cheng Dam Hydroelectric Power Plant Lin-chia Gorge

 is approximately 4 nm southeast of the plant. 

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BASIC DESCRIPTION

The plant occupies about 19 acres in an irregular-shaped area measuring approximately 1,285 by 950 feet overall (see Figures 2 and 3). It is served by a spur from the Lan-chou to Yung-ching rail line.

The primary function of the plant is the production of prilled urea fertilizer. Liquid ammonia and probably aqueous ammonia will be secondary products. The plant is designed to use coal gas as the source of hydrogen for the synthesis of ammonia and as a source of carbon dioxide for the production of urea. Nitrogen for the production of ammonia will be supplied by an air separation plant. The process flow for the products is shown in Figure 4.

Initial construction activity for the plant was observed in September 1967. By August 1968 an unidentified production building and six support buildings were present. Between August 1968 and October 1970, a steam plant, coal gas retorts, gas purification equipment, an ammonia synthesis building, and urea production facilities were added. The plant was externally complete by October 1970, and no additional construction has been observed since that time.

As of July 1971, the plant has not been observed in operation. Coal has been observed in the coal receiving and storage area since October 1970, but it may have been used only for the operation of the steam plant.

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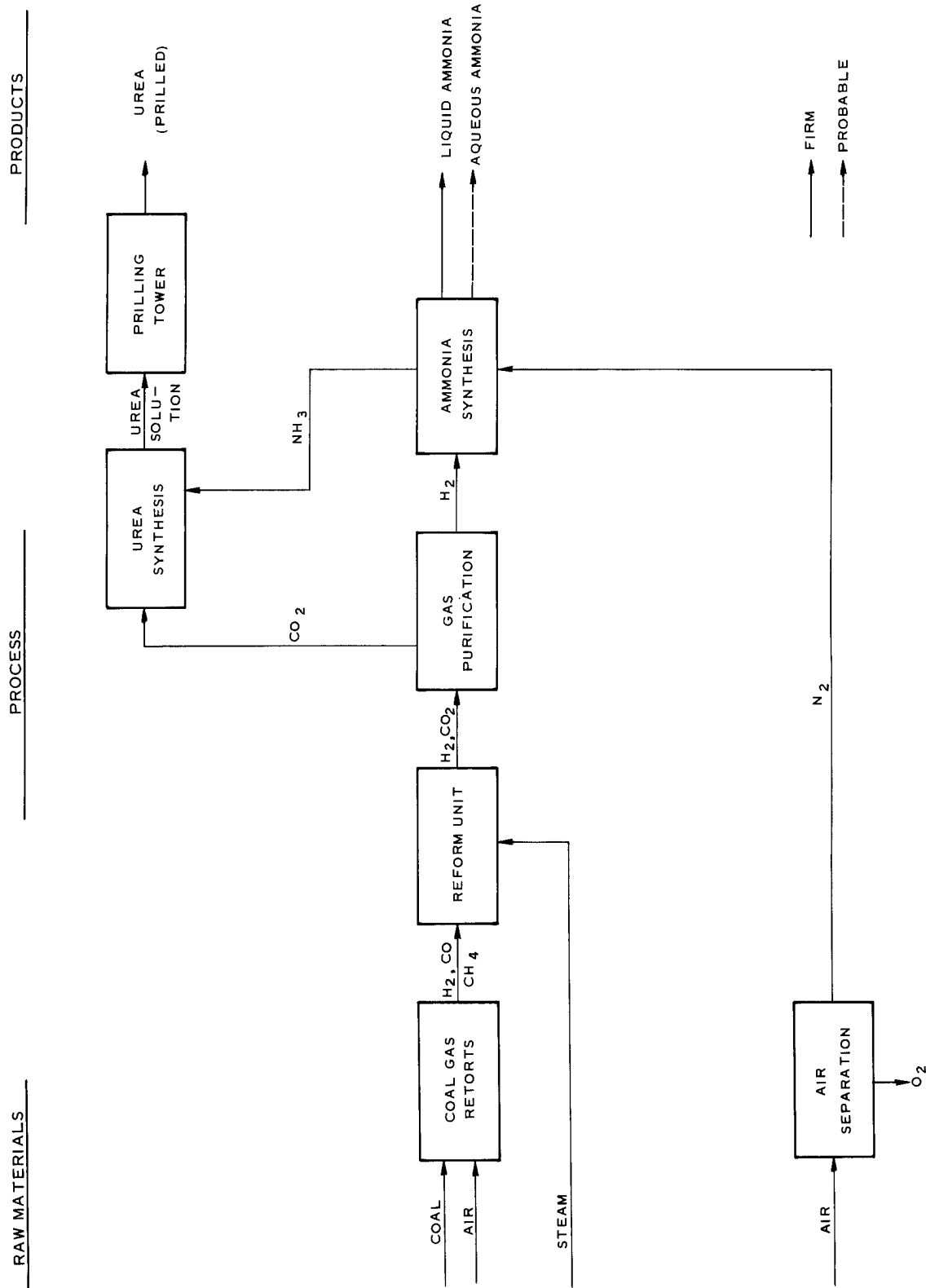


FIGURE 4. PROCESS FLOW AT YUNG-CHING NITROGEN FERTILIZER PLANT.

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REFERENCES

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Map

ACIC. US Air Target Chart, Series 200, Sheet M0384-1HL, 2nd edition,
October 1968, Scale 1:200,000 (SECRET)

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Requirement

COMIREX N07
Support Number 422961

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